

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Rule 53(b) application of USSN 08/935,255:

Hideo ADACHI

Serial No. Unassigned

Group Art Unit: 2634 (expected)

Filed: May 15, 2001

Examiner: S. LIU (expected)

For: BASE STATION APPARATUS FOR RADIOCOMMUNICATION NETWORK,
METHOD OF CONTROLLING COMMUNICATIONS ACROSS
RADIOCOMMUNICATION NETWORK, RADIOCOMMUNICATION NETWORK
SYSTEM, AND RADIO TERMINAL APPARATUS

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

May 15, 2001

Sir:

Prior to examination on the merits, please amend the above-identified application as follows:

IN THE ABSTRACT:

Delete the current Abstract and replace therewith the attached substitute Abstract.

IN THE CLAIMS:

Cancel claims 1-4.

REMARKS

Claims 5-16 are pending in this application, none of which have been amended. Claims 1-4 have been canceled. No new claims have been added.

In view of the aforementioned amendments and accompanying remarks, claims 5-16 are in condition for examination, which action, at an early date, is requested.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**VERSION WITH MARKINGS TO SHOW CHANGES MADE**".

In the event that this paper is not timely filed, Applicant respectfully petitions for an appropriate extension of time. The fees for such an extension or any other fees which may be due with respect to this paper, may be charged to Deposit Account No. 01-2340.

Respectfully submitted,

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Enclosures: Version With Markings To Show Changes Made
Substitute Abstract

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Abstract:

The Abstract has been amended as follows:

[There is disclosed a] A base station apparatus for a radiocommunication network in which radiocommunication with one or more radio terminal apparatuses is established according to a frequency hopping scheme. The base station apparatus includes a search section which searches for another radiocommunication network in the vicinity of the base station apparatus when the base station apparatus is started, and when another radiocommunication network is detected, obtains the pattern and time of frequency hopping in another radiocommunication network[; and a]. A frequency hopping selection/setting section [which] selects the pattern obtained by the search section as the frequency hopping pattern for the base station apparatus, and [which] selects, on the basis of the time obtained by the search section, timing at which the frequency hopping based on the pattern does not cause frequency interference with respect to frequency hopping performed in another radiocommunication network, and [which] carries out frequency hopping of the pattern at the thus-selected timing. It becomes possible to improve the throughput of the network system such as a radio LAN.

In the Claims:

Claims 1-4 have been canceled.

ABSTRACT OF THE DISCLOSURE

A base station apparatus for a radiocommunication network in which radiocommunication with one or more radio terminal apparatuses is established according to a frequency hopping scheme. The base station apparatus includes a search section which searches for another radiocommunication network in the vicinity of the base station apparatus when the base station apparatus is started, and when another radiocommunication network is detected, obtains the pattern and time of frequency hopping in another radiocommunication network. A frequency hopping selection/setting section selects the pattern obtained by the search section as the frequency hopping pattern for the base station apparatus, and selects, on the basis of the time obtained by the search section, timing at which the frequency hopping based on the pattern does not cause frequency interference with respect to frequency hopping performed in another radiocommunication network, and carries out frequency hopping of the pattern at the thus-selected timing. It becomes possible to improve the throughput of the network system such as a radio LAN.